

IN THE ABSTRACT:

Please amend the abstract as follows:

~~The invention relates to a~~In the distributed memory type arrangement, ~~wherein elements in the arrangement stored in various memories are inputted/outputted and~~with unified processing and communication~~are unified. An information processing~~The system includes a data transmission route for transmitting a value of a memory module to another memory module. A PMM memory has a list of values ~~whose values arranged in ascending order or descending order without duplication.~~ A PMM control device includes: data transmission means for transmitting a value contained in the value list to another memory module; data reception means for receiving a value contained in the value list; and order judgment means for deciding the global value order ~~considering the value contained in the value list of all the other memory modules by referring to the value list of the other memory modules received~~ and storing the decided order at the position corresponding to its memory module value in the global order storage arrangement for storing the global value order.